

TABLE OF CONTENTS

CHAPTER 1 - PURPOSE AND NEED FOR ACTION	
I. Introduction	1-1
II. Background Information.....	1-2
General Description of the Area.....	1-2
Main Boulder Fire History.....	1-4
Main Boulder Cabin Area Photos (Historical & Current).....	1-5
III. Project Area Location and Description	1-9
IV. Purpose For and Description of the Proposed Action	1-11
Purpose and Need	1-11
Proposed Action	1-12
Wildfire Simulations (Pre-Treatment and Post-Treatment)	1-14
V. Scope of the Proposed Action	1-16
VI. Relationship to the Forest Plan and Other Administrative Direction	1-16
Gallatin Forest Plan.....	1-16
Administrative Direction.....	1-20
VII. Decision to be Made	1-21
CHAPTER 2 – ISSUES AND ALTERNATIVES.....	
I. Introduction	2-1
II. Public Involvement and Scoping Process	2-1
Project History	2-1
Scoping.....	2-2
Public Involvement	2-2
III. Identification of Issues -	2-3
IV. Key Issues	2-3
1. Fuel Conditions	2-4
2. Noxious Weeds	2-5
3. Water Quality.....	2-5
4. Fisheries.....	2-6
5. Scenery	2-6
6. Wildlife	2-7
7. Recreation	2-8
8. Air Quality.....	2-9
V. Other Analysis Issues	2-9
VI. Alternatives Considered In Detail	2-10
Alternative A (No Action).....	2-10
Alternative B (Proposed Action).....	2-11
Detailed Design Criteria	2-12
Detailed Stand Treatments	2-13
Stand Treatment Group 1 Simulation (Pre and Post Treatment).....	2-16
Fuel Model Descriptions.....	2-17
Table 2-1 Proposed Action- Individual Unit Descriptions.....	2-18
VII. Design Criteria and Mitigation.....	2-24
VIII. Project Monitoring	2-34
IX. Alternatives Considered but Eliminated from Detailed Study	2-36

CHAPTER 3 - AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

I.	Introduction	3-1
	General and HistoryDescription of the Area.....	3-1
II.	Past, Present, & Reasonably Foreseeable Activities	3-2
III.	Forest-Wide Goals, Objectives, and Standards	3-4
	Forest Plan Management Direction.....	3-4
	Visual Quality and Wild & Scenic Summary.....	3-4
	Recreation Summary.....	3-6
	Wilderness Summary	3-6
	Roadless Summary	3-6
	Wildlife Summary	3-7
	Fisheries Summary	3-9
	Water Quality Summary	3-10
	Sensitive Plant Species.....	3-10
	Forest Plan Management Areas	3-11
IV.	Other Required Disclosures.....	3-12
V.	Applicable Laws and Regulations.....	3-15
	Federal Laws.....	3-15
	State Laws.....	3-18
VI.	Other Guidance.....	3-18
VII.	Direct, Indirect, and Cumulative Effects	3-23
	1. Fuel Conditions	3-23
	2. Noxious Weeds	3-31
	3. Water Quality.....	3-43
	4. Fisheries	3-47
	5. Scenery and Wild & Scenic River	3-57
	6. Wildlife	3-63
	7. Recreation	3-94
	8. Air Quality.....	3-103

CHAPTER 4 - CONSULTATION AND COORDINATION.....

I.	Public Involvement and Scoping Process	4-1
	Public Notice and Outreach	4-1
	Chronology of Public Participation	4-1
II.	Agencies, Organizations, and Individuals Contacted	4-2
III.	List of preparers	4-4
IV.	Distribution and Review of this EA.....	4-5

APPENDIX A – OTHER ISSUES.....

A.	Soils	A-1
B.	Heritage Resources	A-9
C.	Livestock Grazing	A-12
D.	Road Density and Elk Effective Cover (HEI)	A-13
E.	Vegetative Structure/Diversity/Old Growth	A-15
F.	Economics	A-22
G.	Insect & Disease	A-25
H.	Inventoried Roadless	A-29
I.	Wilderness	A-30

APPENDIX B – UNIT SPECIFIC MITIGATION

Unit Specific Mitigation	B-1
Table B-1 Proposed Action Unit Specific Mitigation by Resource.....	B-3

APPENDIX C – BEST MANAGEMENT PRACTICES

Introduction	C-1
BMP Implementation Process	C-1
Definitions	C-3
Streamside Management	C-3
Roads	C-3
Timber Harvesting and Site Preparation	C-6
Stream Crossings	C-9
Winter Logging.....	C-10
Hazardous Substances	C-11

APPENDIX D – SPECIES VIABILITY.....

Introduction	D-1
Scale of Analysis	D-2
Species Given Detailed Multi-Scaled Discussion.....	D-3
Grizzly Bear.....	D-3
Bald Eagle	D-7
Gray Wolf	D-8
Canada Lynx	D-8
Black-Backed Woodpecker	D-8
Boreal Toads	D-9
Northern Leopard Frog.....	D-9
Townsend's Big Eared Bat.....	D-10
Wolverine	D-10
Northern Goshawk	D-11
Pine Marten	D-13
Conclusions and Consistency with Laws, Regulations, Policy, & Standards.....	D-14
Citations.....	D-16

LIST OF MAPS

Map 1-1 Historic Vegetation Map	1-6
Map 1-2 Current Vegetation Map	1-7
Map 1-3 Fire Risk Map	1-8
Map 1-4 Vicinity and Project Area Map	1-10
Map 1-5 Project Overview and Management Area Map	1-19
Map 2-1 Proposed Action Map 1	2-20
Map 2-2 Proposed Action Map 2	2-21
Map 2-3 Proposed Action Map 3	2-22
Map 2-4 Proposed Action Map 4	2-23

GLOSSARY/ACRONYMS

Glossary	G-1
Acronyms.....	G-20

Literature Sited by Resource

Air Quality.....	L-1
Economics.....	L-1
Fisheries.....	L-1
Fuels.....	L-2
Hydrology	L-4
Scenery	L-4
Soils.....	L-4
Vegetation	L-5
Weeds	L-6
Wildlife	L-6